

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

LISTING OF CLAIMS:

1. (currently amended) An apparatus for exercising and supporting an upper limb, the apparatus comprising two support modules (A, B) connected on the first side by a rigid connecting piece (5), ~~characterised in that~~ wherein:

- both the support modules (A, B) have a frame (1), with a support plate (4) fixed to its upper part,
- an exercising part (C) is removably attached to the support plate (4) of the first support module (A),
- the exercising part (C) comprises an upper arm support means (3) articulated or hinged in the support plate (4; 4a) and an actuator (9) rotating or moving said support means (3) or part of it relative to the support plate (4; 4a).

2. (currently amended) An apparatus as defined in claim 1, ~~characterised in that~~ wherein the exercising part (C) comprises an upper arm support means (3) and an arm support means (10), the upper arm support means (3) comprising a connecting part (31), which is articulated in a curved support plate (4; 4a) at the point of connection (P), and a pneumatic actuator (9) being disposed between said connecting part (31) and said curved support plate (4; 4a).

3. (currently amended) An apparatus as defined in claim 1, ~~characterised in that~~ wherein the exercising part (C) comprises an upper arm support means (3) comprising a connecting part (31) comprising an upper connecting part (31f) and a lower connecting part (31g), which parts (31f, 31g) are hinged in a support plate (4; 4a) by means of a hinge means (P; P1), and a pneumatic

actuator (9) being disposed between said lower and upper connecting parts (31g, 31f).

4. (currently amended) An apparatus as defined in claim 2 ~~or 3, characterized in that~~ wherein the upper arm support means (3) additionally comprises an upper arm support part member (32), which is articulated at the end of the connecting part (31) and whose length (L1) is variable.

5. (currently amended) An apparatus as defined in claim 4, ~~characterised in that~~ wherein the length (L1) of the upper arm support part (32) is changed with two or more glide parts (32a, 32b) fixed in gliding relationship.

6. (currently amended) An apparatus as defined in claim 5, wherein ~~characterised in that~~ the overall length (L1) of the glide parts (32, 32b) depends on the angle of incidence (α) between the connecting means (31) of the upper arm shoulder means (3) and the support plate (4; 4a).

7. (currently amended) An apparatus as defined in ~~any of the preceding claims~~ claim 4, ~~characterised in that~~ wherein an arm support means (10) is rotationally fixed at the end of the upper arm support part (32).

8. (currently amended) An apparatus as defined in ~~any of the preceding claims~~ claim 2, ~~characterised in that~~ wherein the distance between the shoulder joint (N) and the point of connection (P) between the connecting part (31) and the support plate (4) can be altered.

9. (currently amended) An apparatus as defined in ~~any of the preceding claims~~ claim 1, ~~characterized thereof that~~ wherein the support means (3) or part thereof is hinged or articulated to the support plate (4) so, that can be turned essentially horizontally or vertically in relation to the support plate (4).

10. (currently amended) An apparatus as defined in claim 9, ~~characterized thereof that~~ wherein the support means (3)

comprises first connecting part (31) hinged horizontally turntable to the nose (4a') of the support plane (4).

11. (currently amended) An apparatus as defined in ~~any of the preceding claims~~ claim 1, ~~characterized~~ thereof that wherein the support means (3) comprises first connecting means (31) composing of upper connecting part (31f) and lower connecting part (31g) and between these connecting parts (31f, 31g) being disposed a actuator (9) that can be actuated to change the angle of incidence between said connecting parts (31f, 31g) and also the angle of incidence between the upper connecting part (31f) and the support plate (4).

12. (currently amended) An apparatus as defined in claim 11, ~~characterized~~ thereof, that wherein the actuator (9) is a pressure spring or a pneumatic device.

13. (currently amended) An arrangement for exercising and supporting an upper limb, the arrangement comprising an apparatus including two support modules (A, B) connected on the first side by a rigid connecting piece (5), ~~characterised in that~~ wherein in the arrangement

- both the support modules (A, B) have a rigid frame (1), a support plate (4) being fixed to the upper part of the frame and the exercising part (C) being rotationally or movably fixed at the point of connection (P) or at the hinge means (P; P1) to the support plate (4; 4a) of the first support module (A),

- the frames (1) of the support modules (A, B) can be fitted immediately underneath the shoulder joints (N),

- the other upper limb is supported on a support plate (4; 4b) fixed to the upper part of the frame (1; 1b) of the second support module (B) with the upper limb exerting a force (F1) on the rigid connecting piece (5),

- the first upper limb that has undergone surgery is supported on the exercising part (C) fixed to the support plate (4; 4a) disposed at the upper part of the frame (1; 1a) of the support

module (A) in a manner such that the weight of the upper limb exerts a force F2 on the rigid connecting piece (5),

- the forces (F1) and (F2) are balanced with the connecting piece (5).

14. (currently amended) An arrangement as defined in claim 13, ~~characterised in that~~ wherein:

- the first upper limb that has undergone surgery is supported on the support module (C) with the upper arm supported by the upper arm support means (3),

- the point of connection (P) or hinge means (P; P1) between the upper arm support means (3) and the support plate (4; 4a) is fitted underneath the shoulder joint (N),

- the upper arm support means (3) is shifted relative to the support plate (4; 4a) by means of the actuator (9) with the muscles of the shoulder joint and/or the upper arm that have undergone surgery and the muscle groups acting on these remaining substantially passive.

15. (currently amended) An arrangement as defined in claim ~~13~~ or 14, ~~characterised in that~~ wherein the distance between the shoulder joint (N) and the point of connection (P) or the hinge means (P; P1) between on the one hand the upper arm support means (3) and on the other hand the support plate (4) can be varied.

16. (currently amended) An arrangement as defined in claim 15, ~~characterised in that,~~ wherein as the upper arm support means (3) is moved or the distance of the point of connection (P) or the hinge means (P; P1) between the upper arm support means (3) and the support plate (4) from the shoulder joint (N) is changed, the length (L1) of the upper arm support member (3) is simultaneously changed.

17. (currently amended) An arrangement as defined in claim 15, ~~characterised in that,~~ wherein the upper arm resting on the support means (3) can be moved horizontally forth and back in relation to the shoulder line by rotating the first

connecting part (31) of the support means (3) around the support plate.

18. (new) An apparatus as defined in claim 3, wherein the upper arm support means (3) additionally comprises an upper arm support part (32), which is articulated at the end of the connecting part (31) and whose length (L1) is variable.

19. (new) An apparatus as defined in claim 5, wherein an arm support means (10) is rotationally fixed at the end of the upper arm support part (32).

20. (new) An apparatus as defined in claim 6, wherein an arm support means (10) is rotationally fixed at the end of the upper arm support part (32).